



COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
SIXTH FLOOR, PRUDENTIAL BUILDING, 195 NORTH TCE., ADELAIDE, S.A.

148

Box 1433J, G.P.O., Adelaide
South Aust. 5001

TELEPHONE: 23 9911
TELEX: AA82106

CEREALS

SOUTH AUSTRALIA

SEASON 1967-68

SCOPE

This Bulletin shows details of the South Australian cereal and hay harvests for the year ended 31 March 1968 as obtained from the annual collection of Agricultural and Pastoral Statistics.

SEASONAL
CONDITIONS

Unusually dry conditions in April 1967, inadequate general rains in all but a few areas during May, continuing dry conditions in June and patchy rainfall during July which varied from a few points in some areas to above average in others caused wide variations in seeding dates.

Following useful rains in all areas during August the favourable conditions early in September and October were offset by the hot dry and windy finish to these months. Cereal production was substantially reduced by the dry start and finish to the season.

Harvesting, which commenced in late October, has seldom been made so early or with so little interruption.

Rainfall over cereal growing areas during the growing period April to November 1967 was 6.37 inches, compared with the average for these areas of 12.75 inches.

SUMMARY
OF AREAS
AND YIELDS

Reports at the beginning of the season indicated that farmers intended to sow approximately 3,324,000 acres of wheat, 1,312,000 acres of barley, and 1,144,000 acres of oats. The areas actually sown were 2,952,000 acres to wheat - a decrease of 65,000 acres on the previous year, 1,266,000 acres to barley - an increase of 84,000 acres on the previous year, and 969,000 acres to oats - an increase of 12,000 acres.

The wheat crop of 26.9 million bushels harvested from 2.9 million acres was only half of the 53.8 million bushels harvested from approximately 3 per cent greater acreage in the 1966-67 season. The barley production of 12.4 million bushels was 11.3 million bushels less than that for the previous year, while the production of 13.3 million bushels of oats was 7.0 million bushels less than that harvested in the 1966-67 season.

The estimate of the combined yields of wheat, barley, and oats, for 1967-68 contained in my bulletin issued in January of this year was 41.5 million bushels. Actual yield for these three cereals was 42.6 million bushels - 45.2 million bushels less than in 1966-67.

TABLE 1 - CEREAL HARVEST, SOUTH AUSTRALIA, 1967-68

Crop	Area		Production	Yield per Acre
	Total (a)	For Grain (b)		
	'000 Acres		'000 Bushels	Bushels
Wheat	2,952.0	2,864.2	26,898.9	9.39
Barley	1,266.2	1,156.5	12,379.5	10.70
Oats	969.4	524.9	3,298.9	6.29
Rye	68.1	57.9	196.6	3.40
Field peas	18.0	16.6	60.9	3.67
	Area Cut		'000 Tons	Tons
Hay	429.0		418.0	0.97

(a) Includes area sown for hay and forage.

(b) Includes crops which failed.

AREAS SOWN FOR ALL PURPOSES

The following table shows acreages sown for all purposes (grain, hay, and forage) for the seasons 1964-65 to 1967-68 together with farmers' estimates of areas which they intended sowing for the current 1968-69 season. The greatest area ever sown to wheat in South Australia was 4,507,213 acres in 1930-31. The area of barley increased steadily until 1958-59 when it nearly equalled that sown to wheat but since then areas sown to barley have fallen relative to areas sown to wheat.

TABLE 2 - AREAS SOWN FOR ALL PURPOSES, SOUTH AUSTRALIA

Crop	1964-65	1965-66	1966-67	1967-68	1968-69(a)
	Acres				
Wheat	2,772,360	2,797,866	3,016,577	2,951,988	3,704,226
Barley	1,134,794	1,150,222	1,181,945	1,266,208	1,579,754
Oats	950,835	970,936	957,699	969,382	1,023,795
Rye	51,273	43,639	66,685	68,115	(b)
Field peas	36,468	32,916	30,341	18,043	23,466

(a) Acreages advised in the autumn as those intended to be sown in 1968-69 season.

(b) Not available.

WHEAT

The wheat harvest for 1967-68 was 26,916,573 bushels less than the harvest of the previous year. During the 28 years to 1957-58 areas sown to wheat for grain declined generally from 4 million acres to 1.3 million but since 1957-58 this trend has been reversed. The area of wheat sown for grain in 1967-68 totalled 2.9 million acres. The best average yield was 23.56 bushels per acre in 1960-61.

Areas, yields, and yields per acre relating to South Australian wheat production for the years 1963-64 to 1967-68 are shown below.

TABLE 3 - WHEAT: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1963-64	1964-65	1965-66	1966-67	1967-68
Total area	acre	2,848,690	2,772,360	2,797,866	3,016,577	2,951,988
Grain area	acre	2,802,258	2,726,826	2,744,863	2,960,275	2,864,155
Production	bushel	53,971,269	52,817,049	39,976,134	53,815,500	26,898,927
Yield/acre	bushel	19.26	19.37	14.56	18.18	9.39

Varieties of wheat sown for all purposes for the years 1965-66 to 1967-68 are shown in the following table.

TABLE 4 - WHEAT: VARIETIES SOWN, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1965-66	1966-67	1967-68	1965-66	1966-67	1967-68
	Acres			Per Cent		
Beacon	2,433	1,444	1,120	0.09	0.05	0.04
Bencubbin (a)	15,340	15,368	13,510	0.55	0.51	0.46
Claymore	47,601	32,051	23,716	1.70	1.06	0.80
Dirk (a)	208,097	175,597	142,426	7.44	5.82	4.82
Falcon	3,803	4,841	7,528	0.14	0.16	0.26
Gabo	381,202	298,865	231,647	13.62	9.91	7.85
Gamenya	60,171	187,882	232,051	2.15	6.23	7.86
Heron	489,066	707,050	879,554	17.48	23.44	29.80
Insignia (a)	1,045,017	1,037,029	923,802	37.35	34.38	31.28
Javelin (a)	13,569	4,128	3,858	0.48	0.13	0.13
Mengavi	5,944	5,690	3,322	0.21	0.19	0.11
Olympic	13,357	19,935	17,370	0.48	0.66	0.59
Pinnacle	59,502	57,527	54,146	2.13	1.91	1.83
Quadrat	2,805	2,727	1,283	0.10	0.09	0.04
Rapier (a)	11,522	4,943	3,124	0.41	0.16	0.11
Raven	94,378	174,623	174,579	3.37	5.79	5.91
Sabre	221,826	170,767	135,353	7.93	5.66	4.59
Scimitar (a)	10,420	2,358	2,157	0.37	0.08	0.07
Sherpa	2,864	2,036	1,729	0.10	0.07	0.06
Stockade	3,047	6,442	6,962	0.11	0.21	0.24
Wongoondy	40,223	38,252	26,720	1.44	1.27	0.91
Yande	4,534	2,398	2,575	0.16	0.08	0.09
Other (b)	61,145	64,624	63,456	2.19	2.14	2.15
Total area	2,797,866	3,016,577	2,951,988	100.00	100.00	100.00

(a) Includes back cross.

(b) Includes unspecified varieties.

BARLEY

The barley production for 1967-68 of 12,379,545 bushels averaged 10.70 bushels per acre. The highest production recorded was 42,233,118 bushels in 1960-61, and the best average yield was 28.27 bushels per acre in 1958-59.

The following table shows details relating to South Australian barley production for the years 1963-64 to 1967-68.

TABLE 5 - BARLEY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1963-64	1964-65	1965-66	1966-67	1967-68
Total area	acre	1,164,561	1,134,794	1,150,222	1,181,945	1,266,208
Grain area	acre	1,123,104	1,094,740	1,098,138	1,106,958	1,156,629
Production	bushel	24,336,555	26,931,735	18,514,200	23,697,594	12,379,545
Yield/acre	bushel	21.67	24.60	16.86	21.41	10.70

The area of barley sown for grain in 1967-68 totalled 1,156,629 acres, 1,096,868 acres of 2 row yielding 11,887,065 bushels and 59,761 acres of 6 row yielding 492,480 bushels.

The varieties of barley sown for all purposes for the years 1965-66 to 1967-68 are shown below.

TABLE 6 - BARLEY: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1965-66	1966-67	1967-68	1965-66	1966-67	1967-68
	Acres			Per Cent		
2 Row - Maltworthy	104,950	93,270	64,911	9.12	7.89	5.13
Noyep	221,738	270,740	330,127	19.28	22.91	26.07
Prior	727,738	709,883	737,314	63.27	60.06	58.23
Other 2 Row	39,829	42,146	52,255	3.46	3.56	4.13
6 Row - All kinds	55,967	65,906	81,601	4.87	5.58	6.44
Total area	1,150,222	1,181,945	1,266,208	100.00	100.00	100.00

OATS

The oats production for 1967-68 was 3,298,905 bushels from 524,868 acres, a yield of 6.29 bushels per acre. Record production in South Australia was 11,992,155 bushels in 1958-59 when the record average yield of 24.93 bushels per acre was obtained.

Details of oats production in South Australia for the years 1963-64 to 1967-68 are shown below.

TABLE 7 - OATS: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	Unit	1963-64	1964-65	1965-66	1966-67	1967-68
Total area	acre	956,336	950,835	970,936	957,699	969,382
Grain area	acre	500,650	443,794	454,562	508,845	524,868
Production	bushel	9,149,149	8,976,907	5,621,811	10,275,969	3,298,905
Yield/acre	bushel	18.27	20.23	12.37	20.19	6.29

Varieties of oats sown for all purposes for the seasons 1965-66 to 1967-68 are as follows:

TABLE 8 - OATS: VARIETIES, SOUTH AUSTRALIA

Variety	Area			Proportion of Total Area		
	1965-66	1966-67	1967-68	1965-66	1966-67	1967-68
	Acres			Per Cent		
Algerian	7,073	6,263	5,368	0.73	0.65	0.55
Avon	425,841	477,303	495,324	43.86	49.84	51.10
Ballidu	20,482	20,298	16,614	2.11	2.12	1.71
Fulghum	22,888	17,324	18,788	2.36	1.81	1.94
Kent	193,967	175,327	167,760	19.98	18.31	17.31
Kherson (incl. Early)	190,651	167,826	168,775	19.63	17.52	17.41
Kurrajong	9,286	7,413	6,016	0.95	0.77	0.62
New Zealand Cape	18,857	19,096	19,095	1.94	1.99	1.97
Orient	34,638	31,077	31,092	3.57	3.25	3.21
Other (incl. unspec.)	47,253	35,772	40,550	4.87	3.74	4.18
Total area	970,936	957,699	969,382	100.00	100.00	100.00

TABLE 9 - CEREALS FOR GRAIN : AREA AND PRODUCTION, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1967-68

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Production	Yield per Acre	Area	Production	Yield per Acre	Area	Production	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
CENTRAL										
Adelaide	4,916	37,581	7.64	12,488	232,590	18.63	2,250	23,019	10.23	9.30
Carnarvon	2,575	50,154	19.48	4,863	99,771	20.52	15,961	417,990	26.19	9.27
Eyre	33,476	131,481	3.93	5,741	18,903	3.29	7,852	30,297	3.86	4.77
Fergusson	118,288	2,041,005	17.25	233,857	3,623,355	15.49	6,057	72,831	12.02	7.53
Gawler	102,494	644,352	6.29	59,275	212,340	3.58	15,266	25,494	1.67	5.95
Hindmarsh	4,560	54,927	12.05	10,284	140,739	13.69	7,398	106,947	14.46	8.37
Light	55,698	579,453	10.40	21,406	152,703	7.13	19,969	134,088	6.71	6.81
Sturt	46,753	236,184	5.05	29,926	135,846	4.54	10,043	33,414	3.33	5.34
LOWER NORTH										
Burra & Kimberley	24,802	183,822	7.41	2,118	9,384	4.43	9,204	36,234	3.94	5.50
Daly	239,114	3,150,843	13.18	112,642	1,421,706	12.62	22,843	125,922	5.51	5.87
Stanley	165,363	1,572,318	9.51	41,116	227,151	5.52	33,830	233,766	6.91	6.65
Victoria	136,823	1,294,767	9.46	37,975	247,557	6.52	21,194	93,537	4.41	5.85
UPPER NORTH										
Dalhousie	62,447	605,004	9.69	3,957	23,523	5.94	9,354	57,498	6.15	4.99
Frome	96,862	1,232,778	12.73	7,309	74,085	10.14	11,380	58,311	5.12	6.62
Newcastle	5,264	46,551	8.84	257	1,935	7.53	472	2,070	4.39	(b)
Other Counties	1,120	8,442	7.54	320	3,300	10.31	947	4,320	4.56	(b)
SOUTH EASTERN										
Buckingham	53,381	467,316	8.75	9,092	74,379	8.18	34,217	255,999	7.48	6.87
Cardwell	9,225	41,088	4.45	11,438	94,170	8.23	4,730	27,594	5.83	7.45
Grey	571	8,670	15.18	2,166	40,761	18.82	2,014	31,098	15.44	11.02
MacDonnell	5,239	61,233	11.69	3,949	40,698	10.31	11,327	135,786	11.99	9.29
Robe	1,833	15,582	8.50	2,444	24,882	10.18	6,767	94,071	13.90	10.06

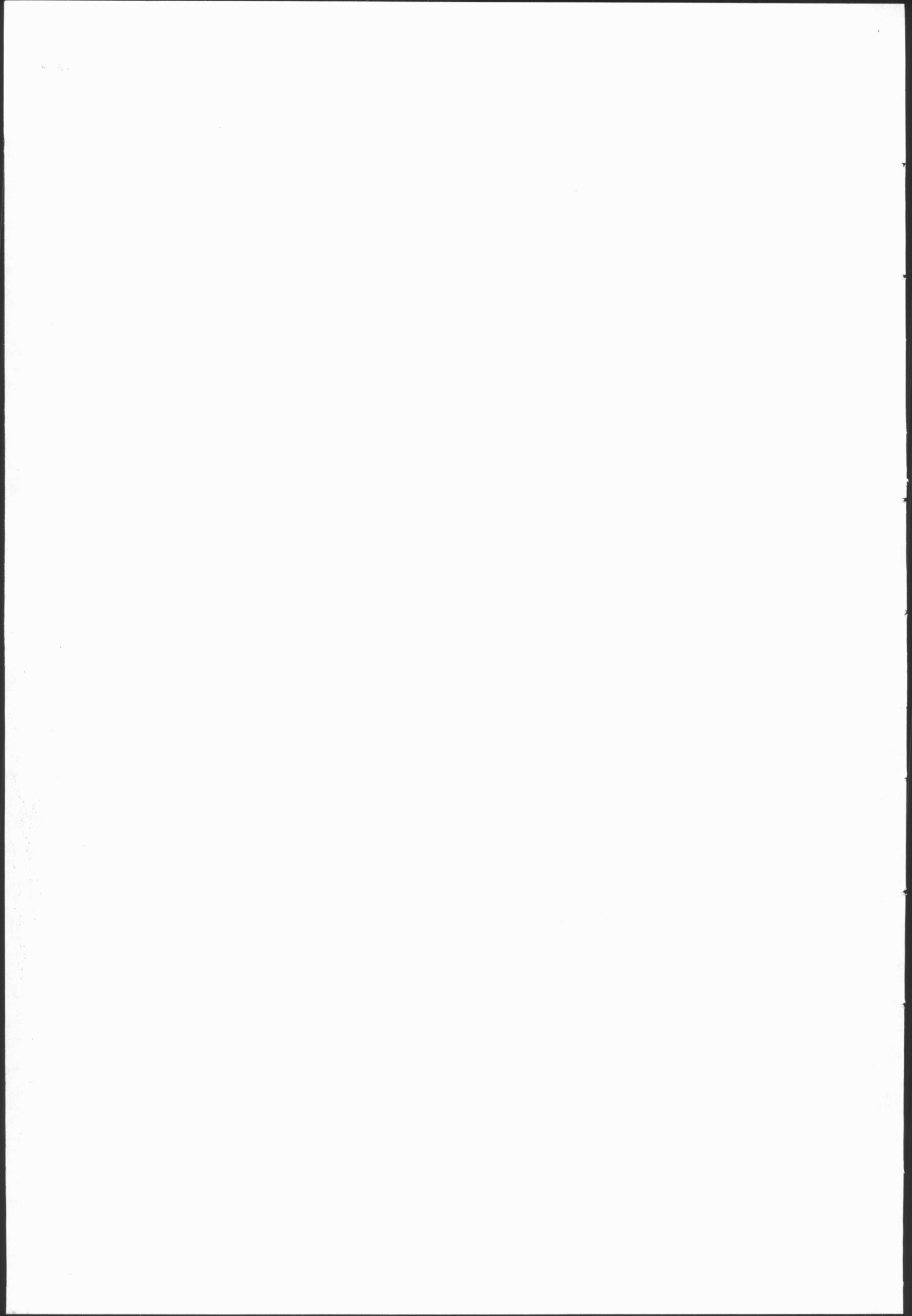


TABLE 9 - CEREALS FOR GRAIN : AREA AND PRODUCTION, COUNTIES AND DIVISIONS, SOUTH AUSTRALIA, 1967-68 (concluded)

DIVISION and County	Wheat			Barley			Oats			Rainfall (a)
	Area	Production	Yield per Acre	Area	Production	Yield per Acre	Area	Production	Yield per Acre	
	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Acres	Bushels	Bushels	Inches
WESTERN										
Bosanquet	5,508	47,589	8.64	n.a.	n.a.	13.75	1,725	1,164	0.67	(b)
Buxton (incl. York)	146,184	675,531	4.62	11,804	44,085	3.73	28,883	25,431	0.88	4.15
Dufferin	68,535	442,995	6.46	2,659	24,417	9.18	24,790	52,296	2.11	6.38
Flinders	115,748	2,308,461	19.94	54,404	1,266,054	23.27	18,578	404,163	21.75	10.75
Hopetoun	7,561	51,702	6.84	n.a.	n.a.	6.00	2,061	11,745	5.70	(b)
Jervois	391,420	3,910,443	9.99	57,189	613,680	10.73	36,349	172,815	4.75	5.79
Kintore	22,317	112,974	5.06	242	1,035	4.28	9,241	19,377	2.10	5.88
Le Hunte	164,650	1,457,268	8.85	12,854	108,174	8.42	30,347	118,248	3.90	6.32
Musgrave (c)	86,516	1,330,473	15.38	49,626	998,586	20.12	10,419	126,243	12.12	9.94
Robinson	154,082	1,612,557	10.47	29,824	405,903	13.61	27,627	120,852	4.37	7.28
Way	104,563	505,563	4.84	5,693	25,275	4.44	26,951	56,001	2.08	4.91
MURRAY MALLEE										
Albert	105,928	306,522	2.89	31,285	87,342	2.79	11,838	9,816	0.83	2.93
Alfred	113,760	472,239	4.15	28,583	111,522	3.90	9,143	12,144	1.33	2.80
Buccleuch	67,686	356,100	5.26	152,373	1,052,361	6.91	16,063	84,795	5.28	5.92
Chandos	114,546	782,061	6.83	70,680	523,998	7.41	7,305	37,467	5.13	5.02
Hamley (incl. Young)	6,869	2,286	0.33	691	1,416	2.05	129	30	0.23	(b)
Russell	17,478	60,612	3.47	35,838	212,493	5.93	10,344	46,032	4.45	5.84
DIVISIONS										
Central	368,760	3,775,137	10.24	377,840	4,616,247	12.22	84,796	844,080	9.95	7.01
Lower North	566,102	6,201,750	10.96	193,851	1,905,798	9.83	87,071	489,459	5.62	6.09
Upper North	165,693	1,892,775	11.42	11,843	102,843	8.68	22,153	122,199	5.52	5.99
South Eastern	70,249	593,889	8.45	29,089	274,890	9.45	59,055	544,548	9.22	8.52
Western (c)	1,267,084	12,455,556	9.83	224,556	3,490,635	15.54	216,971	1,108,335	5.11	6.75
Murray Mallee	426,267	1,979,820	4.64	319,450	1,989,132	6.23	54,822	190,284	3.47	4.56
Outside of Counties	Included in County Musgrave - Western Division									
TOTAL STATE	2,864,155	26,898,927	9.39	1,156,629	12,379,545	10.70	524,868	3,298,905	6.29	6.37

(a) Rainfall over agricultural areas during the crop growing period April to November 1967. The figure for each county is obtained by averaging recorded rainfall at selected stations in crop growing areas; the figure for each division is an average of the results so obtained for each county in the division weighted by area under crop.

(b) Not regarded as crop growing area.

(c) Includes Outside of Counties.

n.a. not available.

RYE

During 1967-68 the area of rye sown for all purposes was 68,115 acres. The 57,868 acres sown for grain yielded 196,590 bushels at an average yield per acre of 3.40 bushels.

FIELD
PEAS

From 16,606 acres planted for grain in the 1967-68 season 60,944 bushels were reaped, an average of 3.67 bushels per acre. In the 1966-67 season 305,905 bushels were obtained from 28,679 acres. In the autumn, farmers indicated that they intended sowing 23,466 acres in 1968-69 for grain or green forage.

Of the 18,043 acres sown in 1967-68 for all purposes 3,381 acres were sown to Collegian, 7,715 acres to Dun, 6,454 acres to White Brunswick, and 493 acres to other varieties.

TABLE 10 - RYE, FIELD PEAS AND HAY: AREA AND PRODUCTION
STATISTICAL DIVISIONS, SOUTH AUSTRALIA, 1967-68

Division	Rye		Field Peas		Hay	
	Area	Production	Area	Production	Area	Production
	Acres	Bushels	Acres	Bushels	Acres	Tons
Central	1,830	6,264	6,716	28,303	158,254	169,200
Lower North	1,592	8,397	9,356	31,662	61,778	40,409
Upper North					14,390	10,933
South Eastern	1,282	1,662	443	183	111,209	123,088
Western (a)	1,705	7,065	66	220	35,768	30,302
Murray Mallee	51,459	173,202	25	576	47,627	44,114
Total State	57,868	196,590	16,606	60,944	429,026	418,046

(a) Includes "Outside of Counties"

HAY

The production of hay in 1967-68 was 418,046 tons from 429,026 acres. A summary of areas and production of hay for the years 1963-64 to 1967-68 is shown below.

TABLE 11 - HAY: AREA AND PRODUCTION, SOUTH AUSTRALIA

Particulars	1963-64	1964-65	1965-66	1966-67	1967-68
Acres					
Area -					
Wheaten	40,772	39,777	46,088	47,988	81,324
Oaten	140,666	110,128	111,818	135,051	157,820
Other	176,154	164,413	140,708	298,703	189,882
Total	357,592	314,318	298,614	481,742	429,026
Tons					
Production -					
Wheaten	56,753	59,392	54,038	65,022	67,977
Oaten	185,435	157,325	117,567	182,605	113,746
Other	246,030	270,241	196,108	481,631	236,323
Total	488,218	486,958	367,713	729,258	418,046
Yield per acre-					
Wheaten	1.39	1.49	1.17	1.35	0.84
Oaten	1.32	1.43	1.05	1.35	0.72
Other	1.40	1.64	1.39	1.61	1.24
Total	1.37	1.55	1.23	1.51	0.97

CEREALS
USED ON
FARMS

The following table shows details of cereals and hay used on farms for seed and feed purposes during the years 1966-67 and 1967-68.

TABLE 12 - CEREALS USED ON FARMS, SOUTH AUSTRALIA

Particulars	Unit	1966-67		1967-68	
		Seed	Feed	Seed	Feed
Wheat	bushel	3,192,270	700,770	3,102,576	710,130
Barley	bushel	1,324,846	2,625,157	1,384,245	2,748,267
Oats	bushel	1,073,406	3,599,179	1,064,877	3,653,589
Hay	ton	..	445,558	..	457,156

Farmers have reported that 3,125,775 bushels of wheat, 1,403,481 bushels of barley and 675,927 bushels of oats were retained on farms for 1968 seeding. 711,861 bushels of wheat, 2,225,301 bushels of barley and 1,508,676 bushels of oats were being kept for feed purposes. Stocks of hay held on farms in March 1968 amounted to 267,677 tons.

D. L. J. AITCHISON

DEPUTY COMMONWEALTH STATISTICIAN
AND GOVERNMENT STATIST

Commonwealth Bureau of Census & Statistics

ADELAIDE S.A.

8 November 1968

